



Defense Acquisition University

Item Unique Identification (IUID)—Basic Training



Professor Dr. Tom Edison, DAU West
Professor Ron Burroughs, DAU West



Outline of Training

- **History and Background**
- **Why we are doing it?**
- **Policies/Guidance**
- **Implementation Planning**
- **Differences Between IUID and RFID**
- **Resources**
- **Navy Perspective**



DoD: Facing new challenges...



- ***Rapidly moving forces on a dynamic battlefield***
- ***Demand for better information on assets***
- ***Need for more effective visibility and management of inventory***

- ***Improve business processes now***
- ***Improve confidence***
- ***Influence the direction and cost of technology development***
- ***Drive the standards to work for us***
- ***Facilitate the implementation of Unique Identification (UID)***





The Genesis of IUID

- **GAO concerned with DOD management of its inventory of equipment.**
- **Finding: DOD's inventory exceeded its war reserve or current operating requirements, but lacked key spare parts (particularly aviation spares) due to a lack of adequate accountability over material shipments or effective monitoring of defective spare parts.**

GAO-02-477G (Mar 02): Executive Guide, Best Practices in Achieving Consistent, Accurate Physical Counts of Inventory and Related Property



DoD Vision for

Item Unique Identification (IUID)

- To implement a policy establishing ***a strategic imperative for uniquely identifying tangible items*** relying to the maximum extent practical on international standards and commercial item markings and while not imposing unique government data requirements.
- Uniquely identified tangible items will facilitate item tracking in DoD business systems and ***provide reliable and accurate data*** for management, financial, accountability and asset management purposes.

Effective 1 January 04 Mandatory for Solicitations



UID: What makes it so Special?

UID...

- Provides ***“The Key”*** to discovery and correlation of item, real property and human resource information so ...
 - DoD can ***consistently locate, control and value assets*** anywhere and anytime
- Enables ***globally accessible and secure*** enterprise data
- Registries enable ***creation of UID mission critical services***



UPC: What Is It?
In today's world, many items we buy have identification on them that indicate the manufacturer or distributor of the product and the product type.

---Two identical cans of Coke from the same bottling plant will show the same data on the Universal Product Code (UPC)

Some items also have a serial number that differentiates one item from another identical item (e.g., the 24th engine off the assembly line is different from the 1024th)

---Serial numbers are unique, but not outside of their enterprise - the serial number assigned by XYZ Manufacturer could be the same as one assigned by ABC Company.

By combining enterprise identification, item class and serialization, a globally unique item identifier is created that differentiates each item from other items

---Each item has its own globally unique item identifier (UII)





IUID: How Is It Done?

**The UII Is Derived From Discrete Component Data Elements
- The UII Is Not Required To Be Marked On The Item as Its Own Data Element**

Coded in the Data Matrix:



Enterprise Identifier = 0CVA5 (CAGE Code)

Original Part Number= 1234

The ISO assigned Issuing Agency Code (IAC) can be derived using the Enterprise data qualifier. The IAC for CAGE, is “D”:

UII Construct 1	UII Construct 2
<i>If the Serial Number is Unique within the Enterprise Identifier</i>	<i>If the Serial Number is Not Unique within the Enterprise Identifier but is Unique within the Part Number</i>
D0CVA5674A36458	D0CVA51234674A36458



Defining the Scope of a UII

A UII Is	A UII Is Not
✓ A Data Element ✓ A Unique Identifier for an Item ✓ Globally Unique ✓ Unambiguous ✓ Permanent ✓ Created by Concatenating Specific Data Elements ✓ The enabler for business intelligence	✓ A Device for Communicating Data, such as Radio Frequency Identification (RFID) Tags, Contact Memory Buttons, or Linear Bar Codes. ✓ A Replacement for the National Stock Number ✓ Intelligent Data that Yields Information About the Item



IUID Policy Overview

- Policy memorandum released on July 29th 2003 (with subsequent updates) established IUID as a mandatory DoD requirement on all solicitations issued on or after January 1, 2004.
- IUID is required for all property items delivered to the Government if:
 - *Acquisition cost is more than \$5,000*
 - *Items with an acquisition cost below \$5,000, when identified by the requiring activity as DoD serially managed, mission essential, or controlled inventory*
 - *Items with an acquisition cost below \$5,000 as determined by the requiring activity*
 - *Regardless of value, any DoD serially managed subassembly, component or part embedded within an item and the “parent” item in which it is embedded*
- Wide Area Workflow (WAWF) is the preferred method for capturing IUID data and became a mandatory payment requirement on January 1, 2005



Key Direction from IUID Policy Updates

- **Apply IUID to legacy items in inventory and operational use**
- **All program and item managers plan for and implement IUID**
 - **ACAT 1D programs submitted plans by June 2005**
 - **All others to MDAs by January 2006**
- **Government Furnished Property (GFP) must meet IUID policy requirement effective 1 Jan 2006**
- **Plans targeted FY2007 as the point by which:**
 - **All existing serialized assets will be entered in IUID registry**
 - **UII marking capabilities established such that marking can commence when equipment is returned for**



Key Direction from IUID Policy Updates

- **DUSD (Logistics and Material Readiness) develop IUID implementation plan for organic depot maintenance operations**
- **Jan 2007: OUSD Materiel Readiness & Maintenance Policy released “Implementing Item-Unique Identification in DoD Maintenance” (dated 31 Jan 07)**
 - **The Concept of Operations IUID-Enabled Maintenance in Support of DoD Materiel Readiness**
- **Feb 07: Policy Update for Item Unique Identification (IUID) of Tangible Personal Property**
- **DoD Directive 8320.03, dated 23 Mar 07, Unique Identification (UID) Standards for a Net-Centric Department of Defense**
- **17 Dec 2007: MIL STD 130N--DoD Standard Practice**



Applying the UII

- **Vendor-Applied-at-Source:** Marking applied when item is manufactured
- **Opportunity-Based Item Application:** Can be done in the field or factory, wherever it is convenient to gain access to items either on an end item or available in a storage facility (phase maintenance, scheduled servicing, depot rebuild or overhaul processes, and work-order processes during modification)
- **Seek-and-Apply:** Used for particular items held within service, either at the end item or in storage. This strategy is dependent on establishing the location and availability of items before deployment of application equipment and teams. This approach is dependent upon good legacy data, and will demand greater overhead of coordinated effort to effect access to the assets.
- **Gated:** The interception of items as they transit specific gates within the supply chain. After identification, the situation can be resolved by diverting the item back to the vendor for application, provision of an application capability at the specific supply gate, or diversion of the item to a centralized application facility.

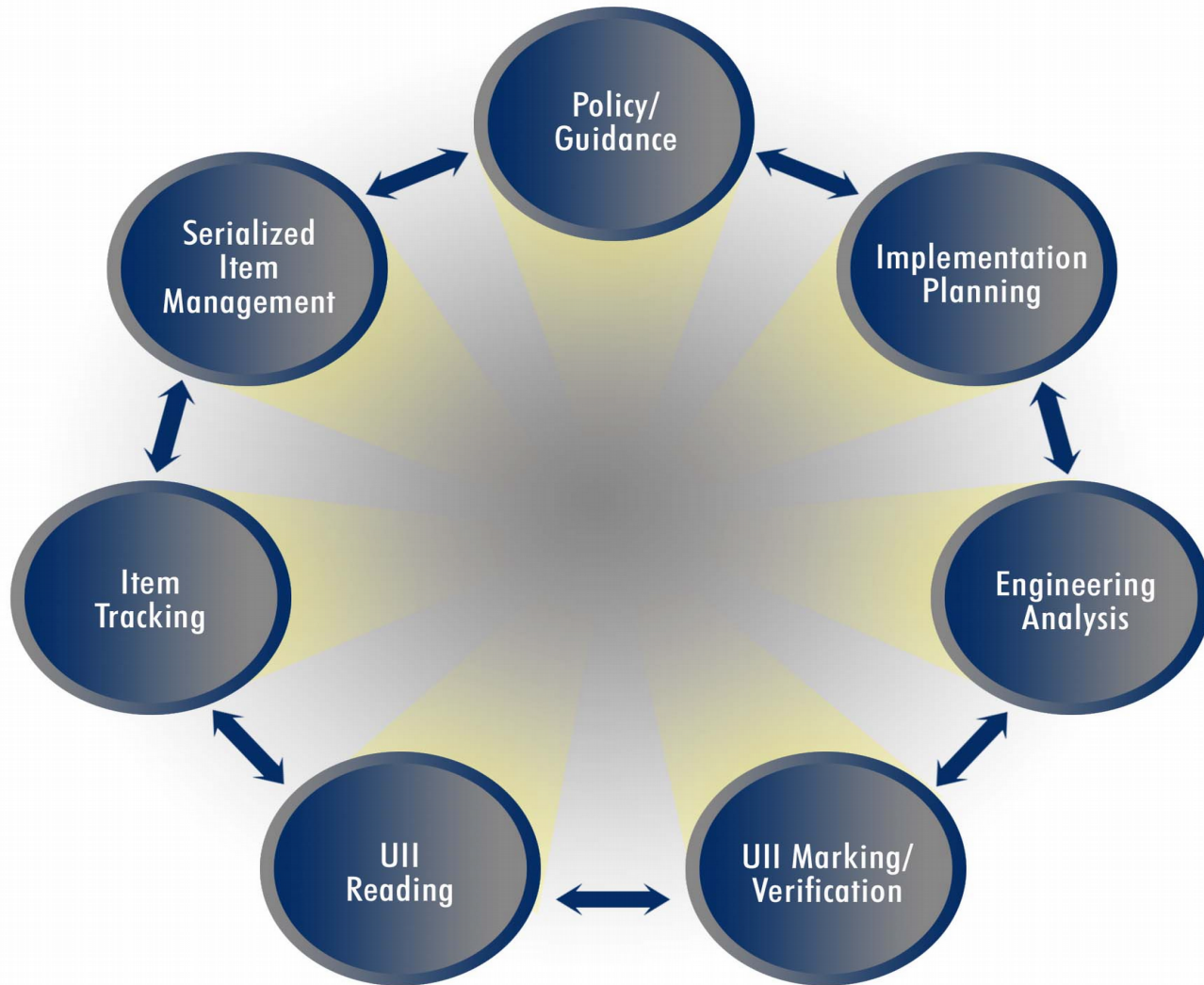


UUI Marking by DoD

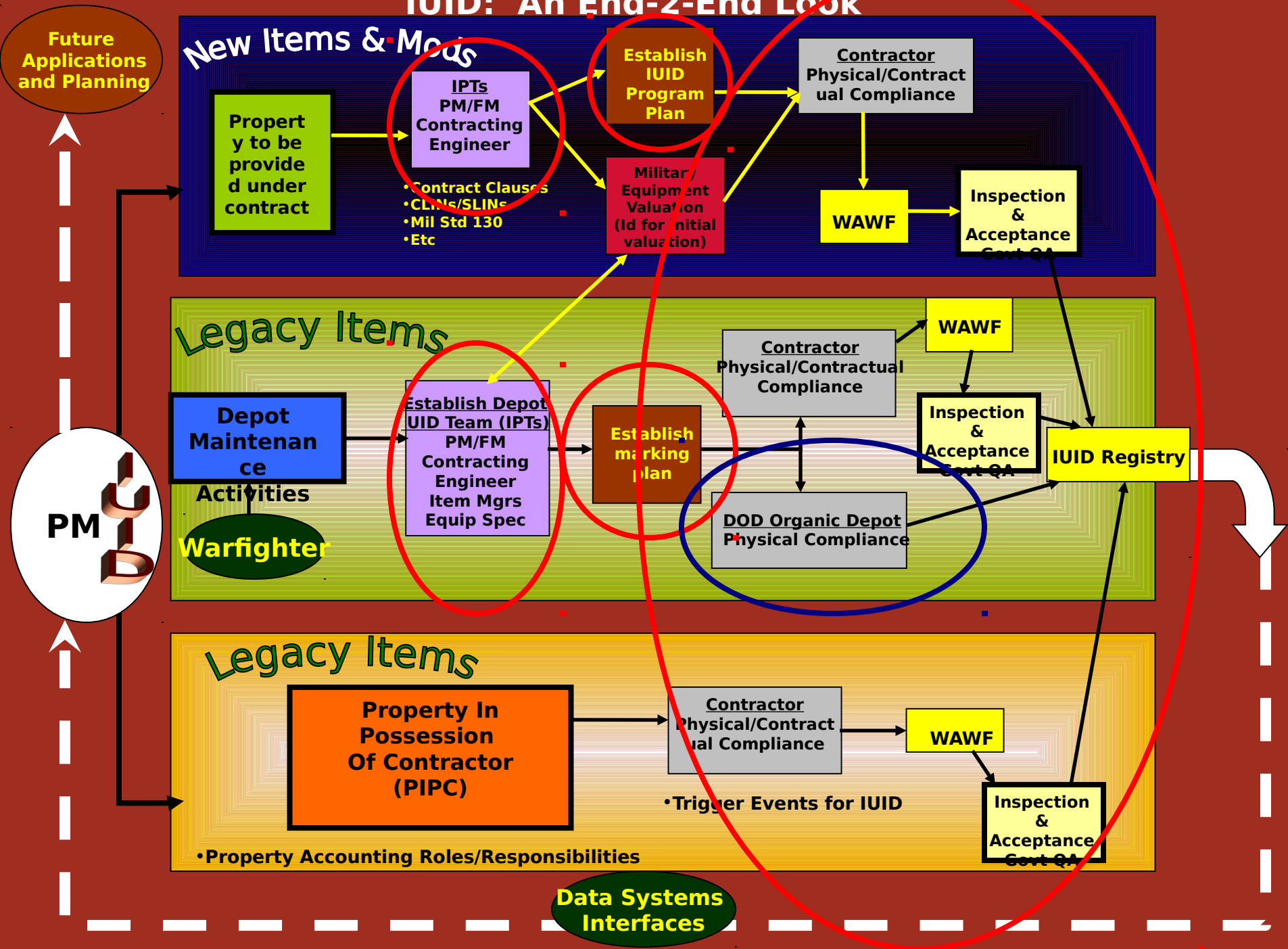
- It may be desirable for the **DOD-requiring activity to mark items** when received rather than require the vendor to mark until the vendor's internal capabilities are established. The requiring activity must ensure that DOD activities can guarantee that the UUI information they use is unambiguous and globally unique through life.
- There will be non-recurring costs to make the appropriate changes to **drawings and marking** instructions for legacy items, in accordance with MIL-STD-130 requirements, as well as costs for marking equipment and readers
- **11 May 05: Directed programs to include requirements in budgeting documents (FY07-12) to ensure implementation visibility within the Planning, Programming, Budgeting, and Execution (PPBE) process**
 - *Budget exhibits for RDT&E, procurement, operations & maintenance funds*
 - *Capital and operations budgets in Working Capital Funds (included in customer rates)*
 - *Needs to be an on-going process as requirements are identified*



Structure for Implementing IUID



IUID: An End-2-End Look





Planning Implementation

What Activities Need to be Involved (IPT/IPPD) *

➤ Program Management	Engineering
➤ Logistics/Customer Support	
Manufacturing	
➤ Process Engineering	
Procurement	
➤ Finance	Configuration
Management	
➤ Data Management	Contracts
➤ Supply Chain Management	
Information Technology	
➤ Business Area Leads	Audit
➤ Communications	International
Liaison	
➤ Legal	Supply Chain
Management	

* Representative Listing from Corporate Implementation Briefs



Key Responsibilities for IUID Implementation

- **Program Managers** will identify items that require unique identification, including embedded subassemblies, components and parts. These embedded items will be identified in a Contract Data Requirements List (CDRL) or Exhibit.
- **Contracting Officers** shall include the clause at 252.211-7003, Item Identification and Valuation, in all solicitations and contracts that require delivery of items.
- All items delivered to the Department will be delivered under a contract line item and the Department's acquisition cost of each item will be identified under a contract line item or sub-line item
- **Contractors** are required to provide item unique identification, or a DoD recognized IUID Equivalent, for all items delivered with an acquisition cost of \$5,000 or more and as designated by the requiring activity for items less than \$5,000.
- Under the clause at 252.211-7003, marking of items shall be in accordance with MIL-STD-130N, Identification Marking of U.S. Military Property.



Key Responsibilities for IUID Implementation

- **Defense Contract Management Agency** will inspect and accept IUID items, provide oversight of government-furnished property, provide oversight of initial IUID-enabled SIM information requirements per contract clauses, and provide program and technical support using IUID associated data for analyzing the cost/schedule/technical performance of contractor programs and systems
- **IUID Registry** will establish interfaces with Wide Area Work Flow and property systems; maintain the IUID Registry; and establish interfaces with item history, maintenance, system configuration, and other pertinent technical databases
- **Maintenance Activities** will incorporate IUID processes into all relevant transactions, mark legacy items as required, associate maintenance events to IUID items, coordinate the development of IUID processes and SIM requirements with the appropriate information systems

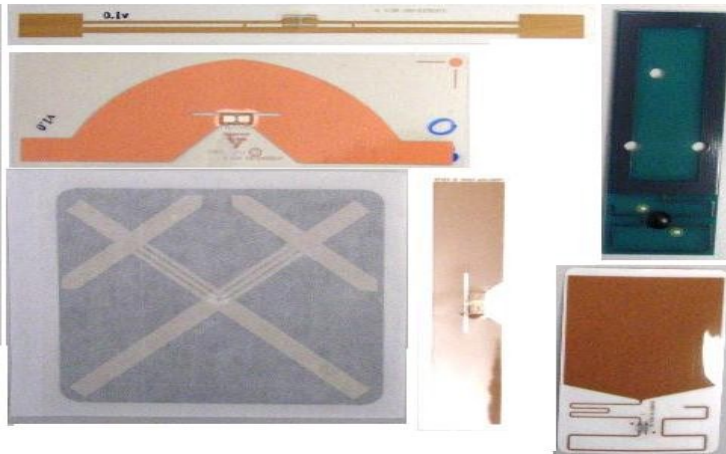


Program Manager Tools

- **Implementation Toolkit**
 - <http://www.iuidtoolkit.com>
- **Implementation Tools and Templates**
 - <http://www.acq.osd.mil/dpap/sitemap.html>
- **Material Standards**
 - <http://rsesc.uah.edu/DPM>
- **Joint-Automatic Identification Technology contract**
 - <https://www.eis.army.mil/AIT/>



Differences between IUID and RFID

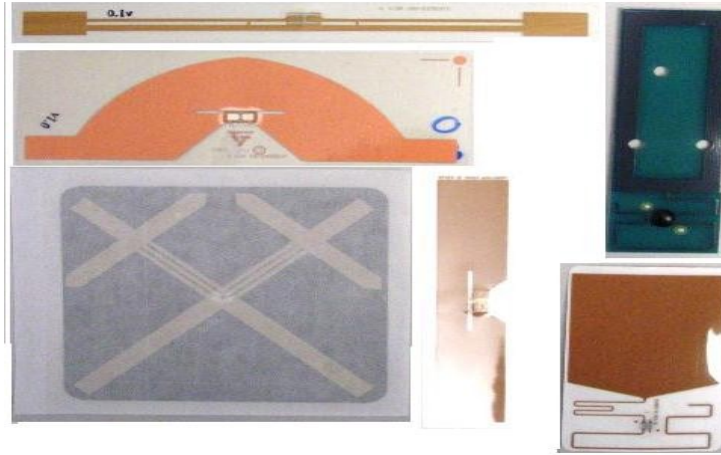


*Does
anyone
have a
paper
manifest for
this?*





RFID History



WAL★MART®

announces top 130-150 suppliers must use RFID by Jan. 1 2005



Electronic Article Surveillance (EAS) for retail and libraries

Auto-ID established



announces all suppliers must use RFID by Jan. 1 2005

- Toll collection
- Access control
- 1st Gulf War tagging

RFID and item tagging

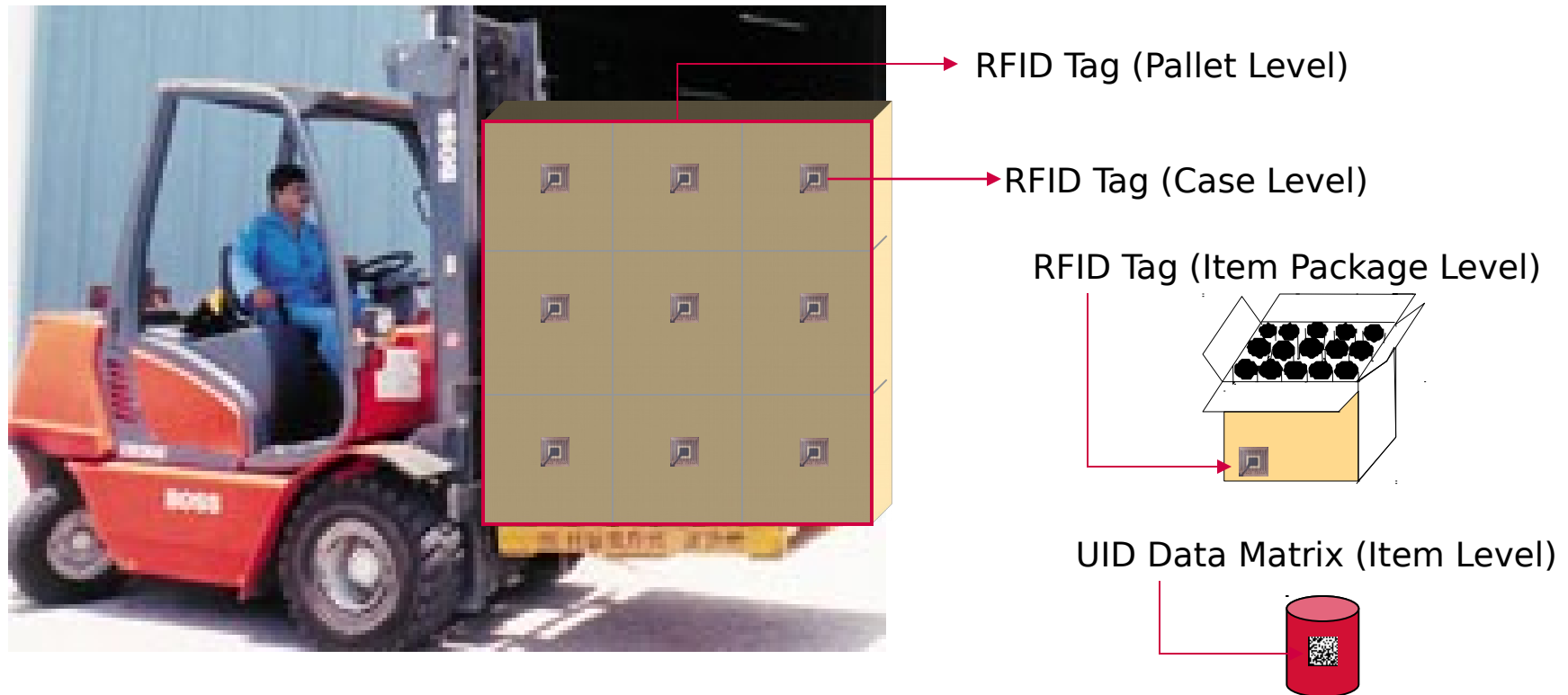
RFID born as IFF

1940s 1960s 1970s 1980s 1990s 2003 2010

RFID is referred to as the next generation barcode

DAU UID-RFID Policy Relationship

According to current DoD Policy, RFID tags that carry data are required to be attached to packages at multiple levels, including item packages, cases, and pallets. Unique Identifiers are required to be attached or directly marked on items using a data matrix to carry the UID data elements.





UID vs RFID

	UID	RFID
Marking	Item	Packaging
Technology	2D Data Matrix	EPC RFID tag
Purpose	Life cycle data visibility	Supply chain receipt/track
Threshold	>\$5000, some exceptions	NONE
Implementatio	January 1,	January 1,

Separate initiatives
Different technologies
Different business rules



RFID Challenges Ahead

- *State of the technology*
 - **Read ranges**
 - **Security/Privacy**
- *Economic Issues*
- *Regulatory Issues*
 - **States, FDA, EPA, FCC**
- *Standards*
 - **Air Interface Protocols**
 - **Frequencies**
 - **Data formats/constructs**
- *AIS & Data Architecture*
- *Education & Training*
- *Phasing of implementation*
- *Business systems integration*



RFID - Future Reality...unlocking the



Back to the Future

“I think the industry has sold itself on a program that offers so little return that it simply won’t be worth the trouble and expense”



discussing the potential
of the barcode in 1975*

*“Scanning Hits a Snag,” Progressive Grocer, December 1975, p. 47



Additional Resources



Item Unique Identification (UID) Resources

- **Defense Procurement and Acquisition Policy**
 - <http://http://www.acq.osd.mil/dpap/pdi/index.html>
- **IUID e-News Letter November 2007**
 - <http://www.acq.osd.mil/dpap/UID/enewsletter/index.html>
- **UID & eBusiness Forum, Implementing Strategies**
 - <http://www.uidforum.com>
- **DAU, UID Video**
 - <http://view.dau.mil/dauvideo/view/eventListing.jhtml?eventid=978>



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Items of Interest

Program Development and Implementation

ARCHIVES

About

Program Development and Implementation (PDI) is comprised of UID, Purchase Card and E-business. UID is a Department of Defense program that will enable easy access to information about DoD possessions that will make acquisition, repair, and deployment of items faster and more efficient. Purchase Cards are government charge cards that enable the Department of Defense to streamline its business processes and thereby free up resources for critical national security needs. E-business is the department of Defense Business Transformation Agency (BTA) efforts in conjunction with DPAP method of leading efforts to make sure policies, processes, data, technology and people are aligned and integrated to provide a consistent experience for suppliers and DoD stakeholders.

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E-Business

E-business is the department of Defense Business Transformation Agency (BTA) efforts in conjunction with DPAP method of leading efforts to make sure policies, processes, data, technology and people are aligned and integrated to provide a consistent experience for suppliers and DoD stakeholders.

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Purchase Card

Purchase Cards are government charge cards that enable the Department of Defense to streamline its business processes and thereby free up resources for critical national security needs.

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Unique Identification

UID is a Department of Defense program that will enable easy access to information about DoD possessions to make acquisition, repair, and deployment of items faster and more efficient.

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LeAntha Sumpter
*Deputy Director,
Program
Development and
Implementation*

Ms. Sumpter is the Deputy Director, Program Development and Implementation, Defense Procurement and Acquisition Policy in the Office of the Under Secretary of Defense (Acquisition, Technology & Logistics) responsible for functional e-business procurement requirements. This includes Unique Identification (UID) policy and Program Management for the DoD Purchase Card Joint Program. [Read more](#)

Policy Vault

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About

UID is a Department of Defense program that enables improved access to information about DoD possessions to make acquisition, repair, and deployment of items faster and more efficient.

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Topics

Accounting and Valuation

This page contains information regarding accounting and valuation within IUID.

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Directives

This page contains information regarding DoD issuances and directive-type memorandums used to convey DoD policies, responsibilities, and procedures.

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FAQ

This page contains frequently asked questions concerning UID.

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Guides

This page contains documents designed to assist in all phases of UID implementation.

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National and International Standards

This page contains information regarding ISO 15434.

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Policy and Regulations

This page contains the latest UID policy documents in addition to information on regulations and standards

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Technology

This section provides information on the data matrix, what needs to be marked, and guidance on how to mark.

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Training and Communication

This page contains information on training events and resources designed to assist in the implementation of IUID.

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Contacts

UID Policy Office
info@uniqueid.org
703.848.7314

News

December 13, 2007

[PM J-AIT Office reader-demonstration testing is complete.](#)

November 26, 2007

[The November 2007 edition of our E-Newsletter is now available](#)

August 15, 2007

[The IUID Data Tutorial is now available.](#)

August 1, 2007

[IUID Success Stories featured in Defense AT&L Magazine](#)

July 12, 2007

[Honorable James I. Finley, DUSD\(A&T\), signed the memorandum entitled "Unique Item Identifiers \(UIIs\) and Government Serialization"](#)

July 1, 2007

[Drs. James Finley and Delores Etter speak out on benefits and opportunities of IUID](#)

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Office of the Under Secretary of Defense for Acquisition, Technology & Logistics **Issue: November 2007**



IUID in Action



Item Unique Identification



Helpdesk



Website



Toolkit



Tutorial



Tutorial



Website

The IUID Policy Office, part of Program Development and Implementation (PDI) under Defense Procurement and Acquisition Policy (DPAP) wants you to stay current on implementation progress, announcements and events. This newsletter is just one avenue to keeping you up to date. There are many resources available including web-based toolkits, videos, bi-coastal events, training seminars and online tutorials.



DFARS

252.211-7007

Update

The Defense Federal Acquisition Regulation Supplement (DFARS) clause was updated 13 September 2007 with important IUID implications regarding Government Furnished Property (GFP). The interim DFARS 252.211-7007 rule for Item Unique Identification of Government Property requires contractors to provide Property in the Possession of Contractors (PIPC) information to the IUID Registry. Contractor Acquired Property (CAP) is excluded from the Registry and should be submitted only when it becomes GFP and meets the IUID requirements. The contractor is responsible for updating the IUID Registry with information changes - additional details can be found at <http://www.acq.osd.mil/dpap/dars/dfars/html/current/252211.htm>.



UID & eBusiness

Forum Update

Bringing DoD Personnel, Service Representatives and Industry Together

The UID & eBusiness Forum conducted 11-13 September 2007 in Atlanta GA, brought together nearly 800 attendees, speakers and exhibitors for

News Fl@sh

WAWF Web-Based Training

WAWF is the only electronic method that will allow electronic payment submission of all types of invoicing, and it has been enhanced to support property transfers for items already registered in the IUID Registry. For additional information and web-based training on the Property Transfer functionality within WAWF, please visit <https://wawf.eb.mil>. Select the blue area "About WAWF" and then click on "Access web-based training".

ACAT 1D - IUID Success

The IUID Policy Office and the ACAT 1D programs have been working closely together implementing IUID requirements; nearly 100% of ACAT 1D programs have successfully submitted and are implementing approved IUID plans. A total of 875 IUID Program Plans have been reviewed and approved by IUID Policy Office Team

Item Unique
Identification

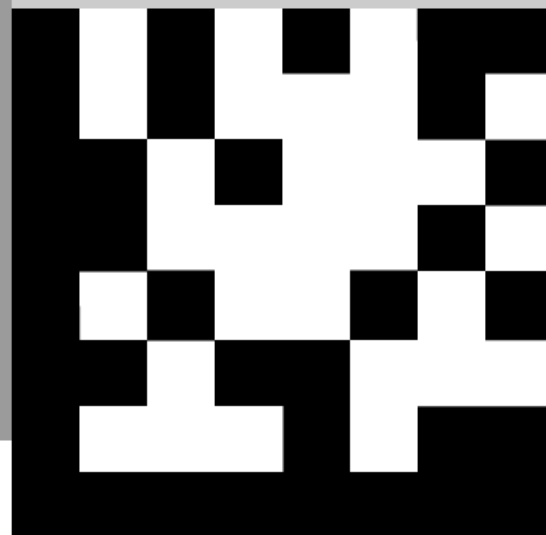
Implementation Toolkit

Related Links:

- > [DPAP Website](#)
- > [UID Website](#)
- > [FAQs](#)
- > [DAU website](#)
- > [DoD RFID Website](#)
- > [IUID Overview Tutorial](#)
- > [IUID Data Tutorial](#)
- > [UID Forum Website](#)

Helpdesk

info@uniqueid.org
or (703) 848-7314



Welcome

The Item Unique Identification (IUID) Toolkit has been developed to streamline the implementation of unique identification technology throughout DoD and its supply chain. To get started, access the roadmap designed for you from the list below.

- Defense Suppliers**
- Program Managers**
- Maintenance Depots**
- Operations and Field Maintenance**

For assistance or comments regarding this website, please email us at info@iuidtoolkit.com

UID&eBusinessForum | Implementation Strategies for Programs & Suppliers

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2008

February 26-27, Arlington, VA
April 8-9, Huntsville, AL
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ATTENTION DoD Contractors and Military Program Managers:
You are affected by the Unique Identification (UID) Policy!

This mandatory Policy impacts all levels of supply, including small to mid-sized businesses and all acquisition programs!

The UID & eBusiness Forum is designed to provide practical guidance to help educate military program managers and DoD contractors achieve successful UID and eBusiness Systems implementation. The 2008 series offers Forums in Arlington, VA, Huntsville, AL and Sacramento, CA.

> NEW ARTICLE • READ NOW!

DEFENSE AT&L ARTICLES

> ASSET VISIBILITY
> IUID IN DoD



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[Official UID Website](#)

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Attend to learn about:

- Standards & Marking Guidelines
- Wide Area Work Flow (WAWF) & Electronic Document Access (EDA)
- Economics of IUID & RFID Integration
- Government Furnished Property
- Contract Reporting
- IUID Registry & Unique Item Identifiers (UII) Supplier Flowdown
- Materiel Visibility
- Past Performance Reporting (CPARS/PPIRS)
- Federal Procurement Data System – Next Generation (FPDS-NG)

Click Here



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MORE 

POLICY UPDATE

IUID of Tangible Personal Property

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Attendees will have hands on access to all the required technologies presented by the top solutions providers in our

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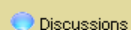
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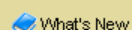
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User Reviews

Main View



Discussions



What's New

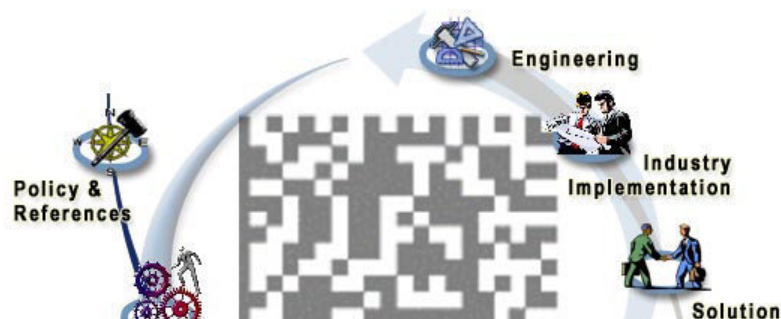


Activity

17 contributions at this community

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- GEIA-sponsored direct part marking methods & environments database [GEIA UID INITIATIVE](#)
- Four-part IUID video at [IUID Overview Video](#)
- Updated [IUID Training](#)
- [IUID FORUMS](#) (Arlington, VA 26-27 February 2008; Huntsville, AL 8-9 April, 2008, Sacramento, CA 17-18 June 2008)
- [IUID Depot Maintenance Customer Days](#)
- [IUID RFID Seminar](#) in conjunction with U Connect Conference Nashville, TN
- Implementation Tools
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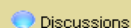
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Activity Ranking[How is ranking calculated?](#)**User Reviews**

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What's New



Activity

12 contributions at this topic

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- [Articles](#)

Highlighted Contributions**Contributions**

Name	File	Contributor	Modified	Type	Rank
ADUSD Materiel Readiness & Maintenance Policy "UID for Maintenance"		Private	31-Oct-2005 7:47 AM	Related Websites	
Air Force UID CoP		Private	1-Apr-2005 12:39 PM	Related Websites	
Barcode Examples	1 file	Private	6-Mar-2007 3:00 PM	References	
DoD Directive 8320.03 "Unique Identification (UID) Standards for a Net-Centric Department of Defense", DTD 23 Mar 07	1 file	Private	5-Apr-2007 11:18 AM	Regulatory	
DPAP Policy and Regulations		Private	26-Sep-2007 12:18 PM	Regulatory	
Integrated List of Existing Unique Item Identification (UID) Definitions and Acronyms	1 file	Private	23-May-2005 9:13 AM	References	
UID - Common Approaches and Toolsets	1 file	Private	6-Mar-2007 2:57 PM	Presentations	
UID Directives		Private	19-May-2005 6:08 PM	Regulatory	
UID Program Overview (September 2005)		Private	23-Sep-2005 11:29 AM	Presentations	



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Tom Edison

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If you have a question about this topic, click here to start a discussion.

This section provides references on UID implementation. Especially important are:

- [***MIL-STD-130N \(Dec 2007\)***](#)
- [DoD Guide to Uniquely Identifying Items \(dtd 1 June 2006\)](#)
- [Program Manager's Planning Roadmap for Implementing Item Unique Identification \(IUID\).](#)



Highlighted Contributions



Contributions

Name	File	Contributor	Modified	Type	Rank
DoD Guide to Uniquely Identifying Items - v1.6 dtd 1 JUN 2006		Jill Garcia	5-Jul-2006 2:33 PM	References	
Implementation Guidebooks		Tom Edison	15-Jan-2008 8:07 PM	References	
Mil Std 130N (Dec 2007)	1 file	Tom Edison	15-Jan-2008 7:59 PM	References	
MIL-STD-130L - DoD Standard Practice Identification Marking of U.S. Military Property 20 DEC 2004	1 file	Jill Garcia	19-May-2005 10:14 AM	References	
Sample IUID Program Plan	1 file	Jill Garcia	13-Jun-2005 12:27 PM	Examples	
Tips on Constructing the Unique Item Identifier	1 file	Jill Garcia	16-Jun-2005 7:17 PM	References	





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Part of "Rapid Deployment Training (RDT)" Channel



IUID Program Overview

Available Formats:

Windows - 96-384, Video

Available Date: 15 Dec 2005, 12:19 PM
EST

Expiration Date: Does not expire

Duration: 31 minutes

View Program:



[DOD IUID1](#)
(Windows - 96-384, Video)



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Other Information Tools

- **DoD Guide to Uniquely Identifying Items:** Outlines the UID process, business rules, and UID constructs
- **UID 101:** This guide explores all aspects of this initiative and is intended to provide an understanding of how DoD program offices and commercial businesses can successfully implement the Unique Identification (UID) policy
- **Guidelines for the Virtual Unique Item Identifier (UII):** This document describes the virtual unique item identifier (UII) concept, the processes for assigning and registering virtual UIIs, and the prospective marking of items that have virtual UIIs.
- **Guidelines for Engineering, Manufacturing, and Maintenance Documentation Requirements for UID implementation:** Provides suggested methods for minimizing the non-recurring engineering costs associated with incorporating marking requirements for DoD unique identification into engineering drawings, manufacturing instructions, and maintenance work records.

QUESTIONS?